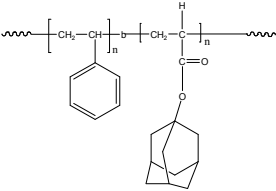


Sample Name: Poly (Styrene-b-1-Adamantyl acrylate)

Sample #: P40288-SADMA

Structure:



Composition:

Mn x 10 <sup>3</sup> PS-b-ADMMA	PDI
36.5-b-20.5	1.19
Microstructure for ADMMA	Syndio:hetero:iso Rich in heterotactic
T <sub>g</sub> for PS block: Not distinct	T <sub>g</sub> for PADMMA block: 184°C

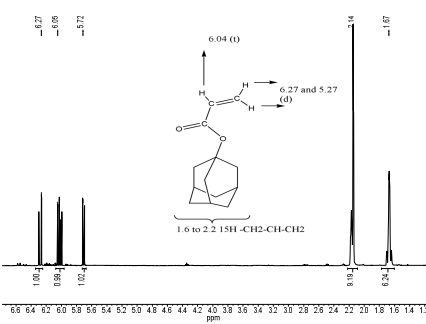
Synthesis Procedure:

The polymer was synthesized by anionic polymerization process.

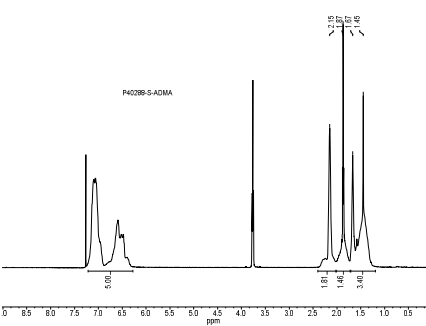
Characterization:

The product was characterized by size exclusion chromatography (SEC) using THF as an eluant and <sup>1</sup>H NMR.

**<sup>1</sup>H-NMR Spectrum of the monomer1-adamantyl acrylate**

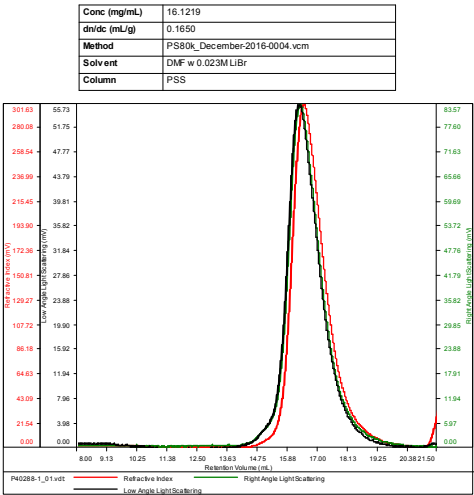


**<sup>1</sup>H-NMR Spectrum of the block copolymer:**



**SEC elugram of the S block :**

P40288-S Block

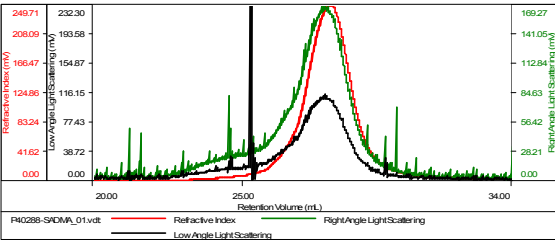


Sample	Mn	Mw	Mp	Mw/Mn	IV
P40288-1_01.vdt	36,536	37,991	36,350	1.040	0.0927

**SEC elugram of the block copolymer:**

P40288-S-ADMA

Concentration (mg/mL)	7.5568
Sample dn/dc (mL/g)	0.1650
Method File	PS80K-Nov2016-6-0000.vcm
Column Set	3x PL 1113-6300
Solvent	THF



Sample	Mn (Da)	Mw (Da)	Mw/Mn	IV (dL/g)	Mp (Da)
P40288-SADMA_01.vdt	57,257	68,458	1.196	0.4011	51,939

**DSC thermogram for ADMMA block:**

